

10/526847

INTERNATIONAL SEARCH REPORT

Intel	Application No
PCT/US 03/27223	

A. CLASSIFICATION OF SUBJECT MATTER		
IPC 7	A47L17/08	A47L13/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A47L B32B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
--

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT
--

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>EP 0 632 990 A (CORONET WERKE GMBH) 11 January 1995 (1995-01-11)</p> <p>abstract</p> <p>column 1, line 56 -column 2, line 19</p> <p>column 2, line 30 - line 34</p> <p>column 3, line 38 - line 51</p> <p>column 4, line 6 - line 10</p> <p>column 4, line 30 - line 37</p> <p>column 5, line 45 -column 6, line 22</p> <p>figures</p>	1-11,13, 20-33
Y	---	15,18

<input checked="" type="checkbox"/>	Further documents are listed in the continuation of box C.
-------------------------------------	--

<input checked="" type="checkbox"/>	Patent family members are listed in annex.
-------------------------------------	--

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the International search report
---	--

17 December 2003	02/01/2004
------------------	------------

Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Cabral Matos, A

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 03/27223

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE WPI Section PQ, Week 200246 Derwent Publications Ltd., London, GB; Class P28, AN 2002-429438 XP002265379 -& JP 2002 017619 A (HOKII GIKEN KK ET AL), 22 January 2002 (2002-01-22) abstract figures 1,2,7,8</p> <p>---</p> <p>US 4 421 809 A (BISH S S ET AL) 20 December 1983 (1983-12-20)</p> <p>abstract column 2, line 5 - line 68 column 4, line 51 - line 52 column 5, line 64 -column 6, line 6 figure</p> <p>---</p> <p>FR 2 815 534 A (GARSON V) 26 April 2002 (2002-04-26) abstract page 3, line 17 - line 18 figures</p> <p>---</p> <p>US 5 947 807 A (OVERSETH E R) 7 September 1999 (1999-09-07) abstract column 5, line 14 - line 35 column 5, line 57 -column 6, line 14 figures</p> <p>---</p> <p>EP 1 057 590 A (ETABLISSEMENTS D CURT SA) 6 December 2000 (2000-12-06) cited in the application abstract figure</p> <p>---</p> <p>WO 98 45112 A (RODEL HOLDINGS INC) 15 October 1998 (1998-10-15) cited in the application page 4, line 1 -page 5, line 4</p> <p>---</p> <p>GB 1 539 477 A (FLOCK DEVELOPMENT & RESEARCH COMPANY LTD) 31 January 1979 (1979-01-31) cited in the application page 2, line 32 -page 3, line 10 figures</p> <p>---</p>	<p>1,3,7-9, 11,13, 20,22, 24,25, 27,31-33</p> <p>1-6,8,9, 11,12, 14,16, 17,19, 20,22, 24-28</p> <p>15,18</p> <p>20</p> <p>14,20</p> <p>1,14,20</p> <p>1,14,20</p> <p>1,14,20</p>

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intert..... plication No
PCT/US 03/27223

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
EP 0632990	A	11-01-1995	DE 4322871 A1 AT 163522 T DE 59405341 D1 EP 0632990 A1 ES 2115817 T3	12-01-1995 15-03-1998 09-04-1998 11-01-1995 01-07-1998
JP 2002017619	A	22-01-2002	NONE	
US 4421809	A	20-12-1983	NONE	
FR 2815534	A	26-04-2002	FR 2815534 A1	26-04-2002
US 5947807	A	07-09-1999	US 5815876 A	06-10-1998
EP 1057590	A	06-12-2000	FR 2794390 A1 AT 249311 T DE 60005085 D1 EP 1057590 A1 US 6589106 B1	08-12-2000 15-09-2003 16-10-2003 06-12-2000 08-07-2003
WO 9845112	A	15-10-1998	WO 9845112 A1 US 6589106 B1 US 6454633 B1	15-10-1998 08-07-2003 24-09-2002
GB 1539477	A	31-01-1979	NONE	